IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

1. (currently amended) A method for a single card to support multiple types of

network service, comprising:

initializing the card, after a reset, by executing initialization software stored

in a first memory with a general purpose processor, the first memory and the first

processor located on the card;

detecting a first request to establish a first network connection that flows

through the card;

determining a first type of network service used by the first network

connection;

downloading in response to the determining, to memory located on the

card, software that is specific to the first type of network service;

executing the software to process traffic over the first network connection

according to the first type of network service, the software stored in a second

memory and the executing performed with a second processor, the second

memory and the second processor located on the card;

detecting a second request to establish a second network connection that

flows through the card;

determining a second type of network service used by the second network

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connection;

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downloading in response to the determining a second type of network

service, to memory located on the card, software that is specific to the second

type of network service; and

executing the software that is specific to the second type of network

service to process traffic over the second network connection according to the

second type of network service, the software that is specific to the first type of

network service being executed simultaneously with the software that is specific

to the second type of network service so that the card can simultaneously

process traffic over the first connection and the second connection according to

the first and second service types, respectively, the software that is specific to

the second type of network service also stored in the second memory and the

executing of the software that is specific to the second type of network service

also performed with the second processor, neither the first nor the second

processors being digital signal processors (DSPs).

2. (currently amended) The method of claim 1 further comprising configuring a

switch to direct the traffic that is associated with the first network connection,

after being received from a physical line that transported it, to a the second

processor that performs the executing of the software that is specific to the first

type of network service.

3. (currently amended) The method of claim 2 wherein a the second processor

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has access to the memory that the software that is specific to the first type of

network service was downloaded into.

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4. (previously presented) The method of claim 1 wherein at least one of the

types of networking service is a voice transportation service.

5. (previously presented) The method of claim 1 wherein at least one of the

types of networking service is an Asynchronous Transfer Mode (ATM) service.

6. (previously presented) The method of claim 1 wherein at least one of the

types of networking service is a Frame Relay service.

Claims 7-27 (canceled)

28. (currently amended) A method, comprising:

initializing a card, after a reset, by executing initialization software stored

in a first memory with a first processor, the first memory and the first processor

located on the card, the first processor not a digital signal processor (DSP);

downloading a first software routine to a the card so that the card can

execute the first software routine, the downloading of the first software routine

being in response to a connection of a first service type being attempted through

the card, the first software routine being specific to the first type of networking

service so that the card can provide the first type of networking service over a

physical line that emanates from the card;

downloading a second software routine to the card, the downloading of

the secondx software routine being in response to a connection of a second

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second software routine, the second software routine being specific to the

second type of networking service so that the card can simultaneously provide

the second type of networking service over the physical line with the first type of

networking service; and,-

executing the first and second software routine so as to simultaneously

provide the first and second types of networking service, the executing being

performed by a second processor with the first and second routines stored in a

second memory, the second processor and second memory located on the card,

the second processor not a digital signal processor (DSP).

29. (canceled).

30. (canceled).

31. (previously presented) The method of claim 28 wherein the physical line

transports framed traffic.

32. (original) The method of claim 31 wherein said physical line is a T1/E1

physical line.

33. (previously presented) The method of claim 28 wherein one of the types of

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network service is a voice transportation service.

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34. (previously presented) The method of claim 33 wherein another one of the types of network service is an ATM service.

35. (previously presented) The method of claim 33 wherein another one of the types of service is a Frame Relay service.

36. (currently amended) The method of claim 28 further comprising configuring a switch that is located on the card to route traffic between a line interface that is located on the card and a the second processor that is located on the card and where the processor executes the second software routine.

37. (cancelled)

38. (cancelled)

39. (cancelled)

40. (currently amended) A card, comprising:

a) an interface to a physical line, the interface further comprising a line interface unit and a framer;

b) a plurality of digital signal processors (DSPs) and a plurality of processors that are not DSPs coupled to local memory resources, at least one of said processors that are not DSPs and the portion of said local memory resources coupled to said at least one of said processors to

Appl. No. 09/270,297 Amdt. dated August 11, 2004 Reply to Office Action dated Mar. 24, 2004 simultaneously execute a plurality of service specific software routines that

are each downloaded to said local memory resources as a consequence of

connection manager software deciding the card is to simultaneously provide

a plurality of different networking service types over the physical line; and,

c) a switch coupled to the interface to receive ingress traffic from the

interface, the switch to route the traffic toward the processors.

41. (previously presented) The card of claim 40 wherein one of the types of

networking service further comprises a voice transportation service.

42. (previously presented) The card of claim 41 wherein the plurality of

processors further comprise a plurality of digital signal processors that help to

provide the voice transportation service.

43. (previously presented) The card of claim 40 wherein one of the types of

networking service further comprises an ATM service.

44. (previously presented) The card of claim 40 wherein one of the types of

networking service further comprises a Frame Relay service.

45. (currently amended) A card, comprising:

a) first means for interfacing to a physical line;

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software routines for at least two different types of service, said second

means further comprising a first memory and a second memory;

c) third means for simultaneously executing said plurality of downloaded

service specific software routines if the card is to simultaneously provide a

plurality of different networking service types over the physical line, said

third means further comprising a first processor and a second processor,

said first processor coupled to said first memory, said second processor

coupled to said second memory, neither of said first and second

processors being digital signal processors (DSPs); and,

d) fourth means for receiving ingress traffic from the first means and

routing the ingress traffic to the third means.

46. (previously presented) The card of claim 45 wherein one of the types of

networking service further comprises a voice transportation service.

47. (previously presented) The card of claim 45 wherein one of the types of

networking service further comprises an ATM service.

48. (previously presented) The card of claim 45 wherein one of the types of

networking services further comprises Frame Relay.

49. (currently amended) A system comprising:

i) a card comprising:

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b) a first processor to at least run said card's boot code, said first

processor not a digital signal processor (DSP);

c) a second processor, said second processor not a digital signal

processor (DSP);

d) a plurality of digital signal processors (DSPs);

e) local memory resources coupled to said first and second processors

and said plurality of DSPs, said second processor to transfer data

between said plurality of DSPs and said local memory resources, said

local memory resources to be downloaded into with individual software

items, each of said individual software items being specific to a different

type of networking service, said card to simultaneously execute each of

said downloaded software items, said card capable of simultaneously

supporting different types of networking service over a line coupled to said

line interface unit.

ii) connection management software to trigger the downloading of each

software item that is downloaded in response to, for each software item

that is downloaded, a realization that a connection characterized by a

network service type that the software item is designed to help implement

is to be supported by said card.

50. (previously presented) The system of claim 49 further comprising a TDM

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switch electrically coupled between said framer and said local memory

resources.

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51. (previously presented) The system of claim 50 wherein said TDM switch is

under software control.

52. (previously presented) The system of claim 49 further comprising a boot

flash memory coupled to said first processor.

53. (previously presented) The system of claim 49 wherein said DSPs can form

IP packets from ingress PCM traffic.

54. (previously presented) The system of claim 49 wherein said DSPs can form

egress PCM traffic from IP packets.